

**BEST AVAILABLE COPY****BRIEF DISCRIPTION OF THE DRAWING**

FIG.1 is a typical input screenshot of the MMA.exe showing the inputted atherosclerotic parameters including a LDL concentration parameter in mg/dL, a CRP concentration parameter in mg/L, a blood systolic pressure parameter in mmHg, a blood diastolic pressure parameter in mmHg, a heart rate parameter in  $s^{-1}$ , a plasma temperature parameter in  $^{\circ}C$ , an angle parameter in degree, a radius parameter of the arterial vessels in cm, and an axial position parameter of the diffusional flux in cm, called diffusional length in cm;  $D_L$  = the LDL diffusion coefficient in  $cm^2/s$ ; and  $D_c$  = the CRP diffusion coefficient in  $cm^2/s$ .

Figure 1

MMA		
Previous	Update	Calc. Risk
LDL Concentration:	150	mg/dL
CRP Concentration:	1.5	mg/L
Systolic Blood Pressure:	170	mmHg
Diastolic Blood Pressure:	80	mmHg
Heart Rate:	90	$s^{-1}$
Artery Vessel Radius:	1.6	cm
Plasma Temperature:	37.4	Celsius
Angle:	45	degree
Diffusional Length:	0.6	cm
LDL Diffusion Coeff.:	1.8	$cm^2/s$
CRP Diffusion Coeff.:	0.9	$cm^2/s$



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FIG.2 is a typical output screenshot of the MMA.exe showing the output including a total risk of the disease; a primary cause in the disease; a primary therapy target; a secondary therapy target; and a therapeutic efficacy for individuals who require the diagnosis, prevention or treatment of atherosclerosis-related CHD or stroke.

Figure 2

Results	
Current Status	Previous Status
0.12354652	0.64143107
0.04706943	0.09310353
0.16553383	0.42536509
0.00319968	0.00639236
0.20507113	0.12311068
0.08005968	0.08005968
0.10715524	0.04551591
0.05083749	0.12021071
0.03757430	0.05083749
Total Risk: 0.8200473350	Total Risk: 1.5860265588
Primary Therapy Target: Systolic Pressure	Primary Therapy Target: LDL Level
Primary Cause of Disease: High Monocyte Flux	Primary Cause of Disease: High LDL Flux
Secondary Therapy Target: CRP Level	Secondary Therapy Target: LDL Level
Therapeutic Efficacy: 48.2954%	